

IN THE CLAIMS

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions by strikeouts and double bracketing.

Please cancel claims 2-4 and 7-21 without prejudice or disclaimer

Please amend claims 1, 5-6 and 22-25, 27, 28, 30, 32-35, 37-40 as noted below.

1. (Currently Amended) A ~~jacket for a~~ radiographic camera, comprising:
 a camera having a body suitable for use in a pipeline;
 a jacket having a front end of the jacket[[:]] and a back end ~~of the jacket~~ opposite
the front end; and
 a handle positioned between the front and back ends of the jacket, the handle
constructed and arranged to carry the camera; ~~and,~~
 ~~a reinforcement structure in the handle that supports the handle~~
 wherein the jacket is adapted to be removably secured to the camera and the camera is
functional with and without the jacket.

2-4. (Canceled)

5. (Currently Amended) The ~~jacket camera~~ of claim [[4]] 1 wherein the ~~wire and the~~
~~tubing are stainless steel and the jacket is~~ includes molded polyurethane.

6. (Currently Amended) The ~~jacket camera~~ of claim [[2]] 1 wherein the jacket defines
an opening to receive the radiographic camera, that extends through the front end of the jacket to
the back end of the jacket, ~~wherein the wire surrounds the opening at the front end, extends~~
~~through the handle of the jacket, and surrounds the opening at the back end of the jacket.~~

7-21. (Canceled)

22. (Currently Amended) A ~~connector assembly for a~~ radiographic camera, comprising:
a housing containing a radioactive source in a pathway surrounded by a radiation shield;
a first end of the housing, having a first opening at a first endplate in communication with the pathway;
a second end of the housing, having a second opening in communication with the pathway, the second opening having a lock assembly;
a radiation shield protector at the first end of the housing adapted to selectively block and unblock the first opening; and
a front plate adjacent the radiation shield protector, the radiation shield protector provided between the first endplate and the front plate, the front plate having a ~~second opening~~ hole aligned with the first opening and adapted to receive a guide cable fitting that allows the radiation shield protector to unblock the first opening and expose the radioactive source,
wherein the lock assembly functions independently of the radiation shield protector and guide cable fitting.

23. (Currently Amended) The connector assembly of claim 22, wherein the shield protector is a rotor rotatably attached to an interior surface of the front plate between the front plate and the first endplate, the rotor including a first rotor hole formed in the rotor locating a port shield to be aligned with the first opening, and a second rotor hole adapted to be aligned with the first opening upon rotation of the rotor.

24. (Currently Amended) The connector assembly of claim 23 further comprising a slider adjacent the rotor that prevents rotation of the rotor, wherein the ~~second opening~~ front plate hole is adapted to receive the guide cable fitting to move the slider to allow the rotor to rotate and expose the first opening through the second rotor hole.

25. (Currently Amended) The connector assembly of claim 24 further comprising a knob rotatably attached to an exterior surface of the front plate and positioned to cover and uncover the ~~second opening~~ front plate hole, wherein the knob is rotatable to expose the ~~second~~

~~opening front plate hole~~ such that the guide cable fitting is insertable within the ~~second opening front plate hole~~ to move the slider, and the knob is thereby further rotatable to cause the rotor to rotate to align the second rotor hole with the first opening and the ~~second opening front plate hole~~ to expose the source.

26. (Original) The connector assembly of claim 23 wherein the port shield is tungsten.

27. (Currently Amended) A radiographic camera apparatus, the apparatus comprising:
a housing having an interior chamber, a first opening and a second opening
formed by the housing, the first opening opposite the second opening on the housing;

a lock assembly in communication with the housing at the first opening;

a front plate having an interior and an exterior surface and defining a hole, the front plate in communication with the housing at the second opening to align the hole with the second opening;

[[an]]a conduit within the housing containing a radiation source and in communication with the lock assembly at one end and the front plate at the other end, a pathway being formed by the conduit to an exterior of the housing through the front plate; and

a rotor rotatably attached to the interior surface of the front plate, the rotor defining a first rotor hole aligned with the second opening and having a radiation shield therein, and the rotor defining a second rotor hole for alignment with the second opening upon rotation of the rotor,

wherein the rotor is locked in position with the radiation shield aligned with the second opening and is adapted to be unlockable when a fitting is engaged in the hole of the front plate and wherein the front plate does not include a removable plug for insertion in the hole when in a storage condition.

28. (Currently Amended) The apparatus of claim 27 further comprising a knob rotatably attached to the exterior surface of the front plate and positioned to rotatably cover and uncover the hole of the front plate, wherein the knob is rotatable to expose the hole in the front plate and

the shield in the first rotor hole, and the knob is further rotatable to cause the rotor to rotate to align the second rotor hole with the second opening when the rotor is unlocked.

29. (Original) The connector assembly of claim 27 further comprising a slider adjacent the rotor that prevents rotation of the rotor, wherein when the slider is caused to move the rotor is allowed to rotate and expose the second opening through the second rotor hole.

30. (Currently Amended) The connector assembly of claim 29 wherein upon insertion of [[a]]the fitting into the hole of the front plate, the fitting is rotated and causes the slider to move, thereby allowing the rotor to rotate and expose the second opening through the second rotor hole.

31. (Original) The connector assembly of claim 30 further comprising at least one ear on the fitting, wherein the ear fits within the hole and upon rotation of the fitting interacts with and moves the slider to allow rotation of the rotor to occur.

32. (Currently Amended) A connector assembly for a radiographic camera, comprising:
a connection element adapted to engage with a guide cable, the connection element including an opening aligned with a radiation source opening in the camera through which a radiation source can pass;

a radiation shield protector ~~that may be moved~~ provided with the connection element, the radiation shield protector movable between blocking and unblocking positions, where in the blocking position the radiation shield protector blocks the radiation source opening and in the unblocking position the radiation shield protector does not block the radiation source opening; and

a lock that is adapted to lock the radiation shield protector in the blocking position and is adapted to unlock the radiation shield protector upon activation of a key located outside the camera at the connection element end of the camera to allow the radiation shield protector to move to the unblocking position,

wherein the radiation source cannot move through the radiation source opening until the radiation shield protector is moved to the unblocking position and wherein position of the radiation shield protector is independent of operation of a lock assembly.

33. (Currently Amended) The connector assembly of claim 32, wherein:
the shield protector comprises a rotor that may rotate to block and unblock the radiation source opening, and the lock comprises a slider that is adapted to engage with ~~[[a]]~~ the key to unlock the rotor from the blocking position.

34. (Currently Amended) The connector assembly of claim 33, further comprising: a knob adapted to move the rotor to unblock the radiation source opening upon engagement of the slider ~~[[within]]~~with the key.

35. (Currently Amended) The connector assembly of claim 32, wherein the lock is adapted to engage with a guide cable fitting that acts as ~~[[a]]~~ the key.

36. (Original) The connector assembly of claim 35, wherein the lock comprises a slider that unlocks the shield protector from the blocking position when the guide cable fitting is secured to the opening in the connection element.

37. (Currently Amended) A method of operating a radiation camera, comprising:
~~unlocking~~ releasing a radiation shield protector that blocks a radiation source opening at a connector assembly in the camera by attaching a guide cable fitting to the connector assembly;

moving the radiation shield protector to unblock the radiation source opening by activating a ~~[[key]]~~mechanism outside a housing of the camera at the connector assembly end;
and

moving a radiation source from within the camera through the radiation source opening,

wherein the steps of releasing and moving the radiation shield protector are independent of operation of a lock assembly on the camera.

38. (Currently Amended) The method of claim 37, wherein ~~the step of unlocking the shield protector comprises attaching a guide cable fitting to the camera~~ the mechanism is incorporated into the guide cable fitting.

39. (Currently Amended) The method of claim ~~[[38]]~~ 37, wherein the step of ~~unlocking~~ releasing the shield protector comprises engaging the guide cable fitting with a slider.

40. (Currently Amended) The method of claim 37, wherein the step of moving the shield protector comprises rotating a knob attached to the shield protector to align a hole in the shield protector with the radiation source opening wherein the radiation source is thereafter movable through the radiation source opening.